

AMENDMENT TO THE CLAIMS

1. (currently amended) A method for analyzing and debugging natural language parses, comprising the steps of:

displaying a parse tree for a ~~sentence~~ textual input, the parse tree being generated based on rules and comprising at least one connecting point having two children;

receiving control input selecting one of said connecting points as a selected connecting point;

determining whether a constituent was formed at said selected connecting point; and

~~in response to determining that a constituent was formed at said selected connecting point,~~ displaying a plurality of ~~menu~~ display items proximate to said selected connecting point, the display items including alternate rules, other than the rules used in generating a constituent at the selected connecting point.

2. (currently amended) The method of claim 1, further comprising the step of:

receiving control input selecting one of said plurality of ~~menu~~ display items for deleting said constituent formed at said selected connecting point; and

in response to receiving said control input for deleting said constituent, deleting said constituent.

3. (currently amended) The method of claim 2, further comprising the steps of:

receiving control input selecting one of said plurality of ~~menu~~ display items for deleting said parse tree; and

in response to receiving said control input for deleting said parse tree, deleting constituents formed at each

connecting point in said parse tree.

4. (currently amended) The method of claim 3, further comprising the steps of:

receiving control input selecting one of said plurality of ~~menu~~-display items for displaying information regarding said children of said selected connecting point; and displaying information regarding said children of said selected connecting point.

5. (currently amended) The method of claim 4 wherein said step of displaying a first plurality of ~~menu~~-display items further comprises displaying information identifying a grammar rule comprising one of the rules applied at said selected connecting point to form said constituent.

6. (original) The method of claim 1, wherein said control input selecting one of said connecting points as a selected connecting point comprises:

receiving input from an input device placing a pointer of a user interface proximate to one of said connecting points; and receiving input representing an enabled state for the control of the input device.

7. (original) A computer-readable medium having computer-executable instructions for performing the steps recited in claim 1.

8. (original) A computer-controlled apparatus for implementing the method of claim 1.

9. (original) The method of claim 1, wherein said step of

determining whether a constituent was formed at said selected connecting point comprises determining whether a rule was successfully applied at said selected connecting point to form a constituent between said children of said selected connecting point.

10. (currently amended) A method for analyzing and debugging natural language parses, comprising the steps of:

displaying a parse tree, generated by applying grammar rules, for a sentence an input text comprising at least one connecting point having two children;  
receiving control input selecting one of said connecting points as a selected connecting point;  
determining whether a constituent was successfully formed at said selected connecting point; and  
~~in response to determining that a constituent was not successfully formed at said selected connecting point,~~  
displaying a first plurality of menu items proximate to said selected connecting point, the menu items including an alternate grammar rules display item which, when activated, displays alternate grammar rules comprising grammar rules not successfully applied in generating the parse tree.

11. (Original) The method of claim 10, further comprising the steps of:

receiving control input selecting one of said first plurality of menu items for displaying a group of rules applied to successfully form a constituent at said selected connecting point; and  
in response to receiving user input selecting said menu item for displaying rules applied to successfully form a constituent at said selected connecting point,

displaying a second plurality of menu items proximate to said first plurality of menu items.

12. (currently amended) The method of claim ~~11~~10 wherein said children comprise constituents of said selected connection point, and further comprising the steps of:

receiving control input ~~selecting one of said second plurality of menu items~~ activating the alternate grammar rules display item for displaying a group of alternate rules that ~~may be~~were not applied at said selected connecting point but that may be applied in view of said constituents of said selected connecting point; and

*AI*  
displaying a ~~first~~the group of alternate rules. ~~comprising all of the rules that may be applied at said selected connecting point in view of said constituents of said connecting point.~~

13. (currently amended) The method of claim ~~11~~10 wherein said children comprise constituents of said selected connecting point, and further comprising the steps of:

receiving control input ~~selecting one of said second plurality of menu items~~ activating the alternate grammar rules display item for displaying a group of alternate rules that ~~may be~~were not applied at said selected connecting point without regard to said constituents of said selected connecting point; and

displaying a ~~second~~the group of alternate rules. ~~comprising all of the rules that may be applied at said selected connecting point without regard to said constituents of said selected connecting point.~~

14. (currently amended) The method of claim 13, further

comprising the steps of:

receiving control input selecting a rule from ~~one of said~~  
~~first or second groups of the~~ alternate grammar rules  
as a selected rule; and  
applying said selected rule at said selected connecting  
point and updating said parse tree.

15. (Original) A computer-readable medium having computer-executable instructions for performing the steps recited in claim 14.

16. (original) A computer-controlled apparatus for implementing the method of claim 14.

17. (currently amended) The method of claim 11, further comprising the steps of:

receiving control input activating the alternate grammar rules display items ~~selecting one of said first plurality of menu items~~ for displaying a group of alternate rules applied at said selected connecting point that did not successfully form a constituent at said selected connecting point; and  
~~in response to receiving user input selecting said menu item for displaying rules unsuccessfully applied at said selected connecting point, displaying a list~~ the group of alternate rules that were unsuccessfully applied at said selected connecting point.

18. Canceled.

19. Canceled.

20. (Currently amended) The method of claim ~~19~~14, further

comprising the steps of:

determining whether said application of said selected rule at said selected connecting point was successful; and in response to determining that said application of said selected rule was unsuccessful, displaying information identifying the reasons for the failure of said application of said selected rule.

21. (currently amended) The method of claim ~~18~~13, further comprising the steps of:

receiving control input ~~selecting~~ requesting the computation of the success or failure of each of said displayed ~~list-group~~ of alternate rules;

in response to said receiving control input requesting the computation of the success or failure of each of said displayed ~~list-group~~ of alternate rules, transmitting each rule in said displayed ~~list-group~~ of alternate rules to a parsing engine;

retrieving an associated success or failure indicator for each of said rules in said displayed ~~list-group~~ of alternate rules from said parsing engine; and displaying said success or failure indicators.

22. (Original) A computer-readable medium having computer-executable instructions for performing the steps recited in claim 21.

23. (Original) A computer-controlled apparatus for implementing the method of claim 21.

24. (currently amended) A method for analyzing and debugging natural language parses, comprising the steps of:  
generating a plurality of different parse trees for a

textual input;  
displaying ~~a one~~ of the plurality of parse trees for ~~a~~  
~~sentence~~ comprising at least one connecting point  
having two children;  
receiving control input selecting a new parse of said  
~~sentence~~ textual input; and  
in response to receiving said control input, displaying ~~said~~  
~~new parse of said sentence as a new parse tree.~~ another  
of the plurality of parse trees.

25. (currently amended) The method of claim 24, wherein ~~wherein~~  
~~said new parse~~ the other of the plurality of parse trees comprises  
a previous one of the plurality of parse of said sentence trees.

AI 26. (currently amended) The method of claim 24, wherein ~~said new~~  
~~parse comprises~~ the other of the plurality of parse trees  
comprises a next one of the plurality of parse of said  
sentence trees.

27. (original) A computer-readable medium having computer-  
executable instructions for performing the steps recited in claim  
26.

28. (original) A computer-controlled apparatus for implementing  
the method of claim 26.

29. (currently amended) A method for analyzing and debugging  
natural language parses, comprising the steps of:

displaying a parse tree for a ~~sentence~~ textual input  
comprising at least one connecting point having two  
children;  
receiving user control input selecting a new ~~sentence~~  
textual input to be parsed; and

in response to receiving said control input, transmitting  
said new ~~sentence-textual~~ input to a parsing engine;  
receiving a parse of said new ~~sentence-textual~~ input from  
said parsing engine; and  
displaying said new parse of said new ~~sentence-textual~~ input  
as a new parse tree.

30. (currently amended) The method of claim 29, wherein said new  
~~sentence-textual~~ input comprises a previous sentence in a corpus  
of training data.

31. (currently amended) The method of claim 29, wherein said new  
~~sentence-textual~~ input comprises a next sentence in a corpus of  
training data.

32. (New) The method of claim 1 wherein the alternate rules  
comprise rules unsuccessfully applied to the selected connecting  
point in generating the constituent.

33. (New) The method of claim 1 wherein the alternate rules  
comprise rules not applied to the selected connecting point in  
generating the constituent.